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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
09/852,664	05/11/2001	Kenji Dosaka	107348-00102	5105		
4372	7590 01/15/2004	VII. 25, 250 /		EXAMINER		
ARENT FOX KINTNER PLOTKIN & KAHN 1050 CONNECTICUT AVENUE, N.W.			MAYEKAR, KISHOR			
SUITE 400		ART UNIT	PAPER NUMBER			
WASHINGT	ON, DC 20036		1753	· · · · · · · · · · · · · · · · · · ·		
			DATE MAILED: 01/15/2004	•		

Please find below and/or attached an Office communication concerning this application or proceeding.

,	1	Application No.	Applicant(s)				
Office Action Sumi	man	09/852,664	DOSAKA ET AL.				
Office Action Sum	<i>nary</i>	xaminer	Art Unit				
The MANU INC. DAME.		lishor Mayekar	1753				
The MAILING DATE of this Period for Reply	communication appea	rs on the cover sheet w	vith the correspondence add	dress			
A SHORTENED STATUTORY PE THE MAILING DATE OF THIS CO - Extensions of time may be available under th after SIX (6) MONTHS from the mailing date - If the period for reply specified above is less t - If NO period for reply is specified above, the r - Failure to reply within the set or extended per - Any reply received by the Office later than three earned patent term adjustment. See 37 CFR Status	DIMINIUNICATION. e provisions of 37 CFR 1.136(a of this communication. than thirty (30) days, a reply wit maximum statutory period will a iod for reply will, by statute, act ee months after the mailing dat). In no event, however, may a hin the statutory minimum of thi pply and will expire SIX (6) MO	reply be timely filed rty (30) days will be considered timely NTHS from the mailing date of this co	mmunication.			
1) Responsive to communicati	on(s) filed on 20 Octo	hor 2022					
2a) ☑ This action is FINAL.							
		ion is non-final.					
3) Since this application is in coclosed in accordance with the	ondition for allowance he practice under <i>Ex p</i>	except for formal mat earte Quayle, 1935 C.E	ters, prosecution as to the 0.11, 453 O.G. 213	merits is			
Disposition of Claims	·	, ,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
4)⊠ Claim(s) <u>1,3,4 and 8</u> is/are p	ending in the applicat	ion.					
4a) Of the above claim(s) <u>2 and 5-7</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowe 6) Claim(s) is/are rejected	ed.						
6) 🖾 Claim(s) 🦰 is/are rejecte	ed.						
7) Claim(s) is/are object	ed to.						
8) Claim(s) are subject t	o restriction and/or ele	ection requirement.					
Application Papers							
9)☐ The specification is objected	to by the Examiner.						
10)☐ The drawing(s) filed on	_ is/are: a)∐ accepte	d or b) objected to	by the Examiner				
Applicant may not request that a	any objection to the draw	ing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) i	ncluding the correction is	s required if the drawing	s) is objected to. See 37 CFR	t 1.121(d).			
11) ☐ The oath or declaration is obj	ected to by the Exami	ner. Note the attached	Office Action or form PTC)-152.			
Priority under 35 U.S.C. §§ 119 and 1	120						
12) Acknowledgment is made of	a claim for foreign prid	ority under 35 U.S.C. §	119(a)-(d) or (f).				
a)∟ Ali b)∟ Some ° c)∟ No	ne of:		., ., .,				
 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. 							
5. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the international Bureau (PCT Rule 17.2(a))							
* See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application)							
Since a specific reference was included in the first sentence of the specification or in an Application Data Sheet							
J 01 K 1.70,				ata Oncot.			
a) The translation of the fore	eign language provisio	nal application has be	en received.				
14) Acknowledgment is made of a creference was included in the file	rst sentence of the spe	элку under 35 U.S.C. § ecification or in an App	s 120 and/or 121 since a s dication Data Sheet. 37 CF	specific R 1.78.			
Attachment(s)							
1) Notice of References Cited (PTO-892)		4) Interview Co	mmon/DTO 440) Demand				
2) Denotice of Draftsperson's Patent Drawing Re	eview (PTO-948)	5) Notice of Inf	mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-15	· 52)			
3) Information Disclosure Statement(s) (PTO-	1449) Paper No(s)	6) Other:		-,			
U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03)	Office Action S	ummarv	Part of Paper No.	200.404.00			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1, 3 and 4 stand rejected under 35 U.S.C. 103(a) as being unpatentable over CONRAD (5,211,919), for reasons as of record.
- 3. Claims 1, 3 and 4 stand rejected under 35 U.S.C. 103(a) as being unpatentable over KAMIYA et al. (5,549,874), for reasons as of record.
- 4. Claims 1, 3 and 4 stand rejected under 35 U.S.C. 103(a) as being unpatentable over DUARTE (5,554,344) in view of KAMIYA '874, for reasons as of record.

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5. Claims 1, 3, 4 and new claim 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over KIESER et al. (5,746,051). KIESER's invention is directed to a device for detoxifying exhaust fumes from mobile equipment. KIESER discloses in Fig. 1 that the device comprises all the structures as claimed. The difference between KIESER and the above claims is the method of operating the device with the limitation of the recited average current density. The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified KIESER's teachings because the manner in which an apparatus operates is not germane to the issue of patentability of the apparatus itself. Ex parte Wikdahl 10 USPQ 2d 1546 (BPAI 1989); Ex parte McCullough 7 USPQ 2d 1889 (BPAI 1988); In re Finterswalder 168 USPQ 530 (CCPA 1971); In re Casey 152 USPQ 235 (CCPA 1967).

As to the subject matter of claim 8, KIESER discloses it in col. 3 lines 19-25 and col. 4, lines 16-18.

6. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over CONRAD '919, KAMIYA '874 or DUARTE '344 as modified by KAMIYA '874 as applied to claims 1, 23 and 4 above, and further in view of KIESER '051. The

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further difference between the reference(s) as applied above and the instant claim is the use of the reactor to remove exhaust gas emitted from an automobile. KIESER as applied above further discloses in col. 1, lines 12-32 that the reactor is used for the ozonization and the reducing of harmful substances in combustion exhaust fumes. The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the reference(s)'s teachings as shown by KIESER because of the interchangeable of the device is known.

Response to Arguments

7. Applicant's arguments filed October 20, 2003 have been fully considered but they are not persuasive.

In response to Applicant's arguments that the references fail to disclose or suggest the recited average current density, first, because the average current density is not a structure of the device, the recited limitation of the average current density cannot be given any patentable weight; and second, because the average current density is the parameter of the process limitation, the recited

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limitation of the average current density cannot be given any patentable weight as asserted by the Examiner in the first Office action.

In response to Applicant's argument to the rejection of claim 4, the rejection stands because it satisfies the recited limitation when the amount a is equal to zero.

Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will

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the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

9. Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Kishor Mayekar whose telephone number is

(571) 272-1339. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342.

Any inquiry of a general nature or relating to the status of this application

or proceeding should be directed to the receptionist whose telephone number is

(571) 272-1300.

Kishor Mayekar

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Primary Examiner

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